

[What is Claimed is]

[Claim 1] A frame structure for a motorcycle wherein a cylinder unit including a cylinder and a cylinder head is provided uprightly in such a manner as to extend forwardly upwards from a front portion of an engine case, characterized in that

a front frame wherein a head pipe portion at a front end of which a steering hole to which a front fork is attached is formed and a leg portion extending leftwardly and rightwardly rearwardly downwards from said head pipe portion are formed integrally with each other is provided, that

the leftward and rightward width of a lower end of the leg portion of said front frame is formed substantially equal to that of said cylinder head and front and rear portions of the lower end of the leg portion are fastened and connected to attaching portions provided in a projecting manner at front and rear portions of an upper face of said cylinder head, that

a rear frame which is formed as a separate member from said front frame and has left and right vertical frames is fastened and connected to upper and lower portions of a rear portion of said engine case at upper and lower fastening portions of said left and right

vertical frames and a pivot for supporting a swing arm for pivotal motion thereon is provided at central portions of said vertical frames, and that,

where an axial line which passes the front portion of the lower end of said leg portion and the lower fastened portions of said vertical frames and another axial line which passes the rear portion of the lower end of said leg portion and the upper fastened portions of said vertical frames are represented by C and B, respectively, an axial line A which passes the center of said head pipe portion and said pivot is positioned between the axial lines C and B.

[Claim 2] The frame structure for a motorcycle according to claim 1, characterized in that a wind introducing hole extending in the forward and backward direction is formed in each of leg portions on the opposite sides of said front frame.